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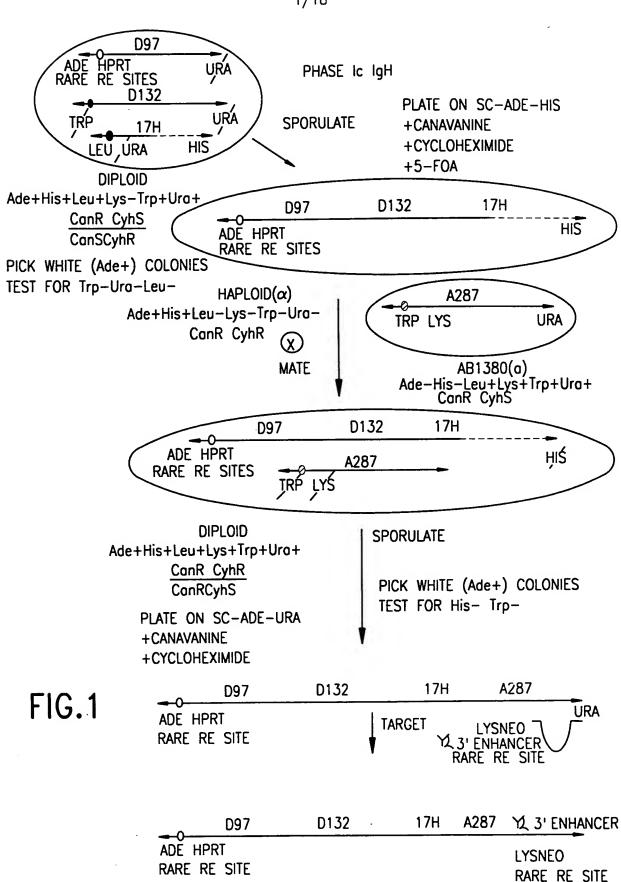
Raju Kucherlapati et al. Not yet assigned Confirmation No.: Not yet assigned
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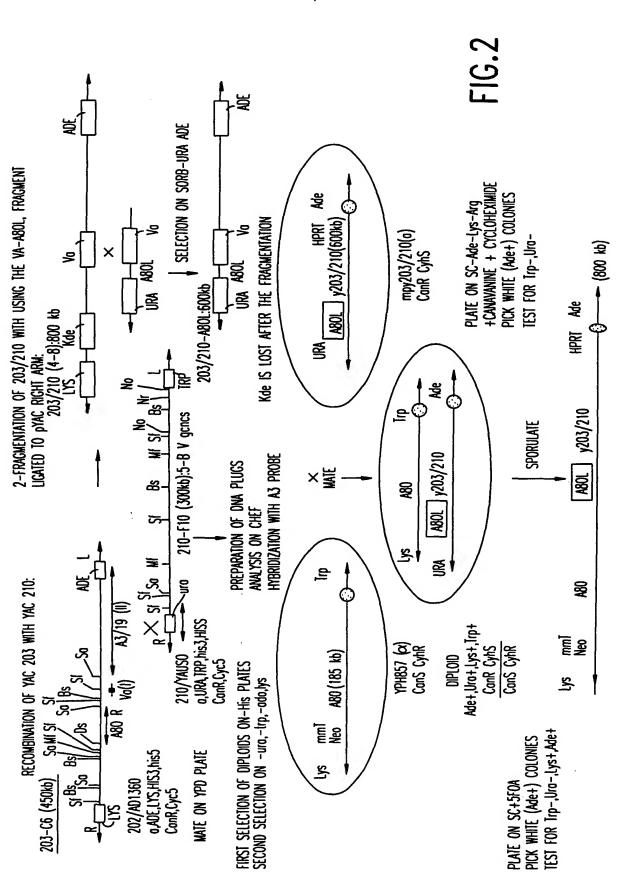
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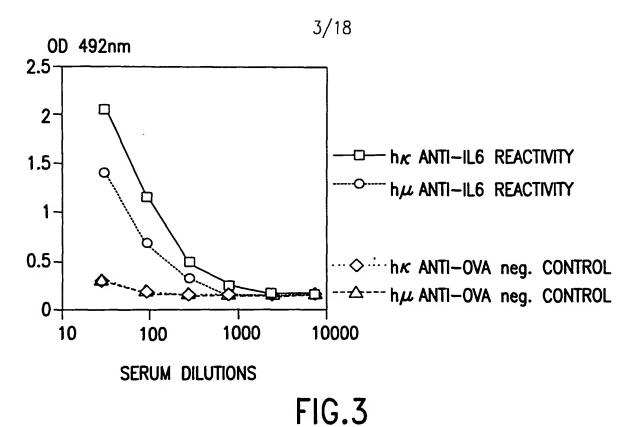
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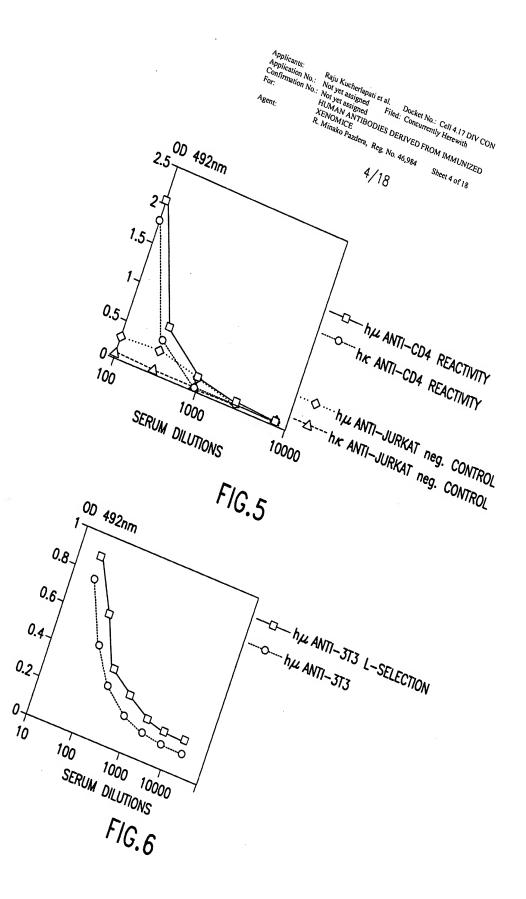
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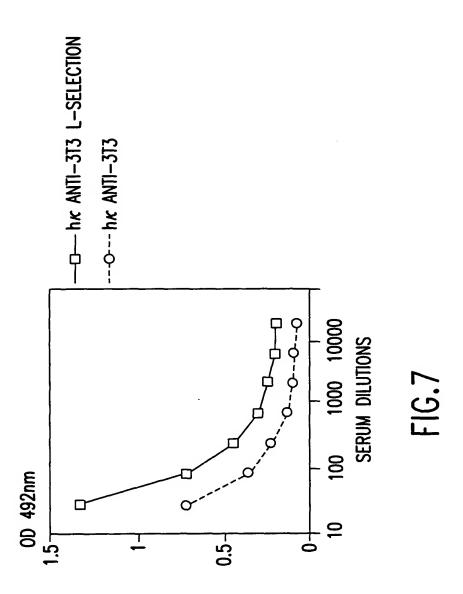
**OD 492nm** 3 2.5 hκ ANTI-TNFα REACTIVITY 2  $h\mu$  ANTI-TNF $\alpha$  REACTIVITY 1.5-1 -♦·····h
µ ANTI−IL8 neg. CONTROL 0.5-Q:-Q:-Q:-Q  $--\Delta$ ---h $\kappa$  ANTI-L-SELECT. neq. 0-**CONTROL** 10 100 1000 10000 SERUM DILUTIONS

FIG.4



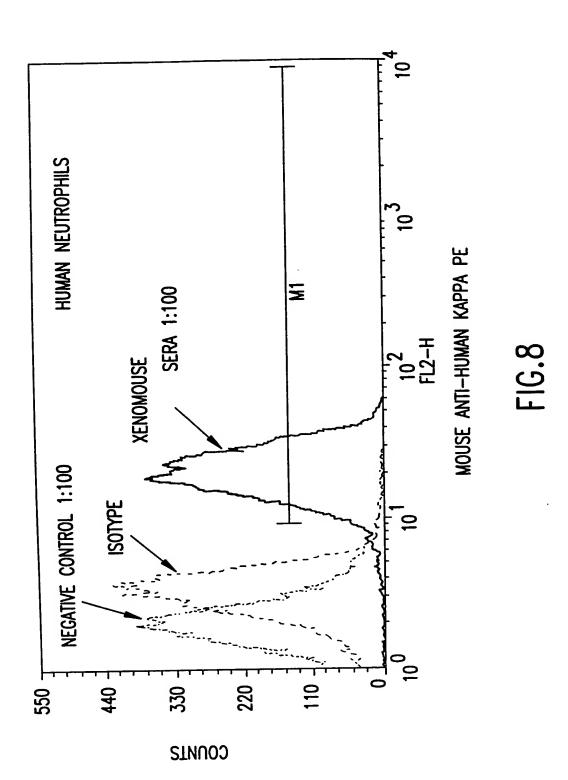
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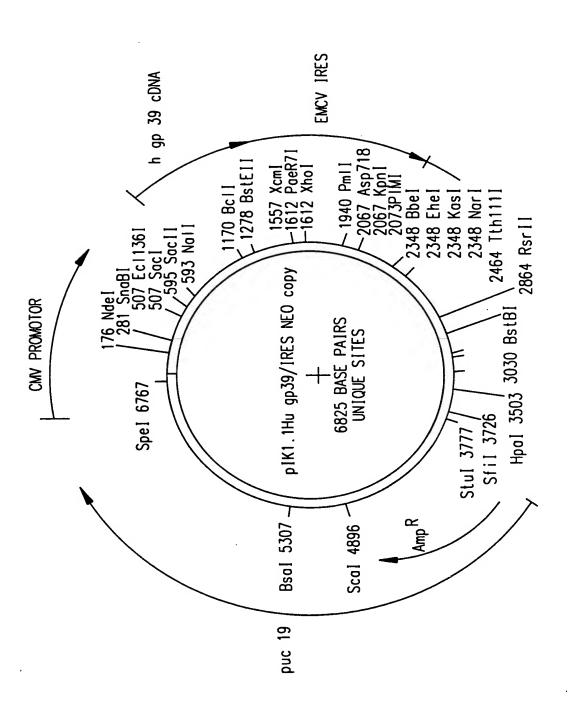
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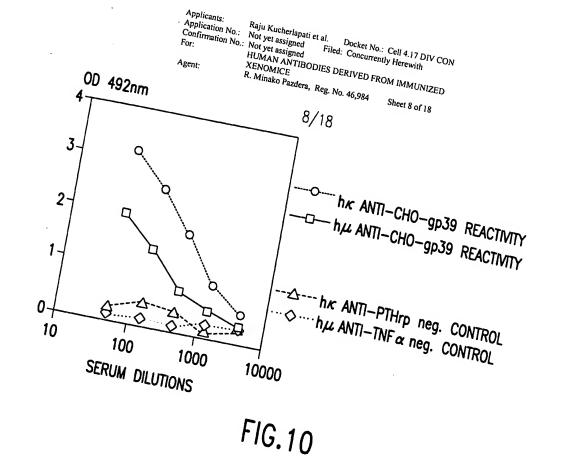
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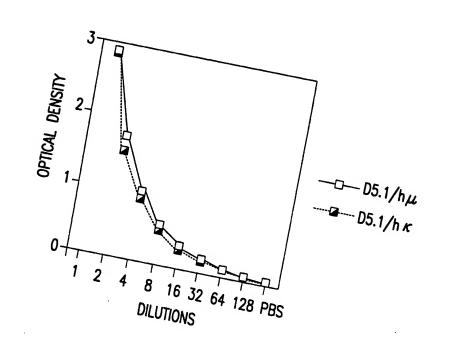


FIG.11

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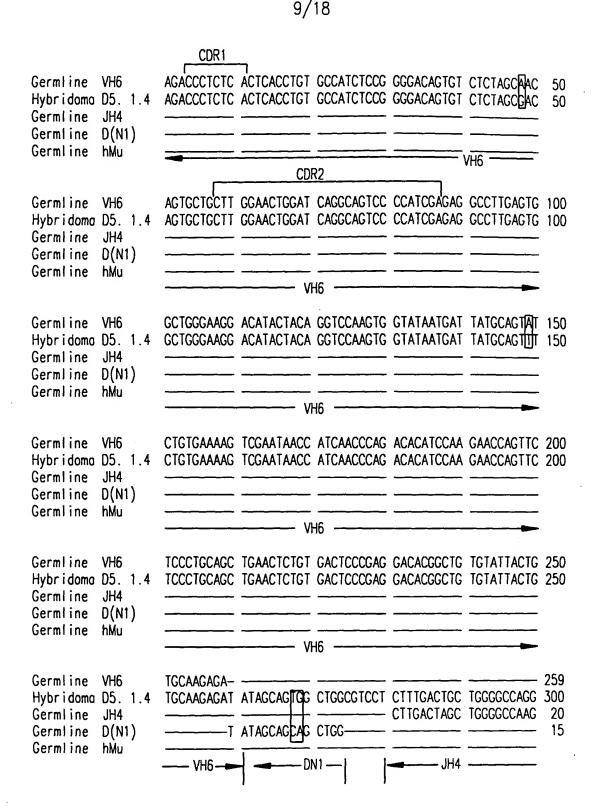


FIG. 12A

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Germline Hybridoma Germline Germline Germline	D5. 1.4 JH4 D(N1)	GAACCCTGGT	CACCGTCTCC	TCA————————————————————————————————————	CATCCGCCCC CATCCGCCCCC	AACCCTTTTC	- 43 - 15 : 27
	D5. 1.4 JH4 D(N1)	CCCCTCGTCT	CCTGTGAGAA	TTCCCCGTCG	GATACGAGCA  GATACGAGCA	GCGTGGCCGT	259 400 43 15 77

FIG.12B

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Germline B3 Hybridoma D5 Germline JK3 Germline CK	1.4		TGACCCAGTC	TCCAGACTCC	CTGGCTGTGT	CTCTGGGCGA
Germline B3 Hybridomo D5 Germline JK3 Germline CK	1.4			AGTCCAGCCA		
Germline B3 Hybridomo D5 Germline JK3 Germline CK	1.4	PACAATAAGAA GCAATAAGAA	CTACTTAGCT	TGGTACCAGC TGGTACCAGC B3		ACAGCCTCCT ACAGCCTCCT
Germline B3 Hybridoma D5 Germline JK3 Germline CK	1.4	AAGCTIOCTCA AAACTIACTCA	TTTACTGGGC	CDR2 ATCTACCCGG	GAATCCGGGG	TCCCTGACCG TCCCTGACCG
Germline B3 Hybridoma D5 Germline JK3 Germline CK			AGCGGGTCTG			
Germline B3 Hybridoma D5 Germline JK3 Germline CK					GTCAGCAATA GTCAGCAATA	
Germline B3 Hybridomo D5 Germline JK3 Germline CK	1.4			GACCAAAGTG	GATATCAAAC	

FIG.13A

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Germline B3						
Hybridoma D5		TGCACCATCT	GTCTTCATCT	TCCCGCCATC	TGATGAGCAG	TTGAAATCTG
Germline JK3			<del></del>			
Germline CK						_
				CK		
Germline B3						
Hybridoma D5	1.4	GAACTGCCTC	TGTTGTGTGC	CTGCTGAATA	ACTTCTATCC	CAGAGAGGCC
Germline JK3						
Germline CK		GAACTGCCTC	TGTTGTGTGC	CTGCTGAATA	ACTTCTATCC	CAGAGAGGCC
				СК		
Germline B3					<u> </u>	
Hybridoma D5	1.4	AAAGTACAGT	GGAAGGTGGA	TAACGCCCTC	CAATCGGGTT	GGGGAAAAA
Germline JK3						
Germline CK		AAAGTACAGT	GGAAGGTGGA	TAACGCCCTC		
			· · · · · · · · · · · · · · · · · · ·	—— ск —		

FIG.13B

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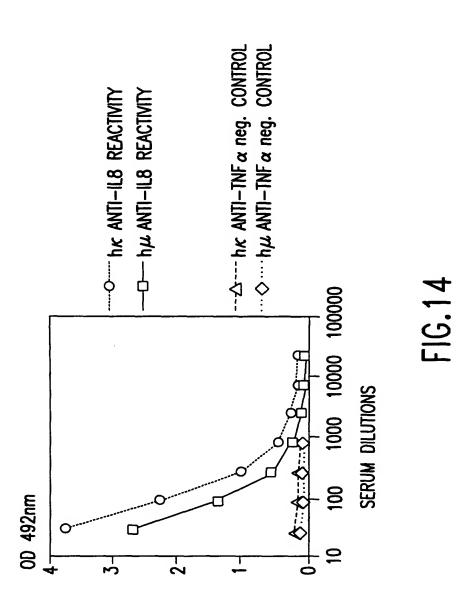
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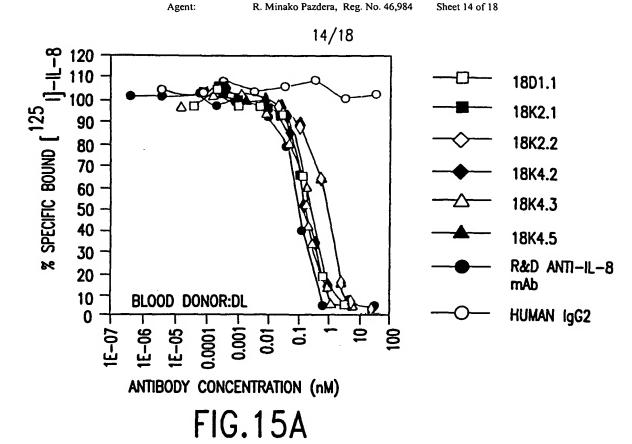
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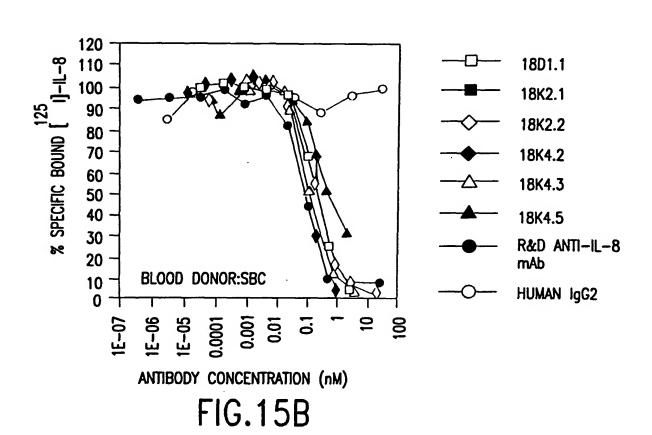
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[CCTGTCCCTCACCTGCGCTGTCTATGGTGGGTCCTTCAGTGGTTACTACTGGAGCTGGATCCGCC CCCGTCCCTCAAGAGTCGAGTCATCATATCAATAGACACGTCCAAGACCCAGTTCTCCCTGAAGT TGAGCTCTGTGACCGCCGCGGACACGGCTGTGTATTACTGTGCGAGAGA][GACTCCCC][ATGCT TTTGATATCTGGGGCCAAGGGACAATGGTCACCGTCTCTTCAG]CCTCCACCAAGGGCCCATCGG TCTTCCCCCTGGCGCCCTGCTCCAGGAGCACCTCCGAGAGCACAGC(GC)GCCCTGGGCTGCCTG GTCAAGGACTACTTCC

## FIG. 16A

| CAGTCTCCATCCTCCCTGTCTGCATCTGTAGGCGACAGAGTCACCATCACTTGCCAGGCGAGTC AGGACATTAGTAAGTTTTTAAGTTGGTTTCAACAGAAACCAGGGAAAGCCCCTAAACTCCTGATC TACGGTACATCCTATTTGGAAACCGGGGTCCCATCAAGTTTCAGTGGAAGTGGATCTGGGACAGA TTTTACTCTCACCATCAGCAGCCTGCAGCCTGAAGATGTTGCAACATATTTCTGTAACAGNATG ATGATCTCCC][ATACACTTTCGGCCCTGGGACCAAAGTGGATATCAAAC]GAACTGTGGCTGCAC CATCTGTCTTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAACTGCCTCTGTTGTGTGCC TGCTGAATAACTTCTATCCCAGAGAGGCCAAAGTACAGTGGAAGGTGGATAACGCCC

FIG. 16B

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| FAGGTCCCTGAGACTCTCCTGTGCAGCCTCTGGATTCACCTTCAGTAGCTATGGCATGCACTGGNT CCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGCTGGCAGAAATATCATATGATGGAAGTAATAAA TACTATGTAGACTCCGTGAAGGGCCGACTCACCATCTCCAGAGACAATTCCAAGAACACGCTGT ATCTGCAAATGAACAGCCTGAGAGCTGAGGACACGGCTGTGTATTACTGTGCGAGAGA][CCGAC TGGGGAT][CTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCAG]CCTCCACCAAGG GCCCATCGGTCTTCCCCCTGGCGCCCTGCTCCAGGAGCACCTCCGAGAGCACAGC(GC)GGCCCT GGGCTGCCTGGTCCAAGGACTACTTCCCCCGAACCGGTGACGGTGTCGTGGAACTCAGGCGCTC TGACCAG -

## FIG. 16C

[CTGACNCAGTCTCCAGACTCCCTGGCTGTCTCTCTGGGCGAGAGGGCCACCATCAACTGCAAGT CCAGCCAGAGTGTTTTATACATCTCCAACAATAAAACTACTTAGCTTGGTACCAGCAGAAACCA GGACAGTCTCCTAAACTGCTCATTTACTGGGCATCTACCCGGAAATCCGGGGTCCCTGACCGATT CAGTGGCAGCGGGTCTGGGACAGATTTCACTCTCACCATCAGCAGCCTGCAGGCTGAAGATGTG GCAGTTTATTACTGTCAACAGTATTATGATACTCC][ATTCACTTTCGGCCCTGGGACCAAAGTGG ATATCAAAC]GAACTGTGGCTGCACCATCTGTCTTCATCTTCCCGCCATCTGATGAGCAGTTGAAA TCTGGAACTGCCTCTGTTGTGCCTGCTGAATAACTTCTATCCCAGAGAGGCCAAAGTACAGTG GAAGGTGGNTAACGCCCCA

### FIG. 16D

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[TCCCTCACCTGCGCTGTCTATGGTGGGTCCTTCAGTGGTTACTACTGGACCTGGATCCGCCAGCC CCCAGGGAAGGGCTGGAGTGGATTGGGGAAATCATTCATCATGGAAACACCAACTACAACCCG TCCCTCAAGAGTCGAGTCTCCATATCAGTTGACACGTCCAAGAACCAGTTCTCCCTGACACTGAG CTCTGTGACCGCCGCGGACACGGCTGTGTATTACTGTGCGAGAGG][GGGAGCAGTGGCTGCG][T TTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCAG]CCTCCACCAAGGGCCCATCGGT CTTCCCCCTGGCGCCCTGCTCCAGGAGCACCTCCGAGAGCACAGC(GC)GGCCCTGGGCTGCCTG GTCAAGGACTACTTCCCCCGAACCGGTGACGGTGTCGTGGAACTCAGGCGCTCTGACCAGCGGC GTGCACACCTTCCCA

# FIG. 16E

LTGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCAGGC GAGTCAGGACATTAGTAACTATTTAAATTGGTATCAACAGAAAGCAGGGAAAGCCCCTAAGGTCC TGATCTACGCTGCATCCAATTTGGAAGCAGGGGTCCCATCAAGGTTCAGTGGAAGTGGATCTGGG ACAGATTTTACTTTCACCATCAGCAGCCTGCAGCCTGAAGATATTGCCAACATATTATTGTCAACA CTATGATAATCT]A[CTCACTTTCGGCGGAGGGACCAAGGTAGAGATCAAAC]GAACTGTGGCTGC ACCATCTGTCTTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGACTGCCTCTGTTGTGTG CCTGCTGAATAACTTCTATCCCAGAGAGGCCAAAGTACAGTGGAAGGTGG

FIG. 16F

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AGTCTCTGAAGATCTCCTGTAAGGGTTCTGGATACAGCTTTACCAGCTACTGGATCGGCTGGGTG CGCCAGATGCCCGGGAAAGGCCTGGAGTGGATGGGGATCATCTATCCTGGTGACTCTGATACCA GATACAGCCCGTCCTTCCAAGGCCAGGTCACCATCTCAGCCGACAAGTCCATCAGCACCGCCTA CCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATGTATTACTGTGCGAGACA][GGACGG TG][ACTCCTTTGACTACTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCAG]CCTCCACCAAGGG CCCATCGGTCTTCCCCCTGGCGCCCTGCTCCAGGAGCACCTCCGAGAGCACAGC(GC)GGCCCTG GGCTGCCTGGTCCAAGGACTACTTCCCCCGAACCGGTGACGGTGTCGTGGAACTCAGGCGCTCT GACCAGCGGCGTGCACACCTTCCCACTGCCA

## FIG. 16G

TGTCTGCATCTATTGGAGACAGAGTCACCATCACTTGCCGGGCAAGTCAGAGCATTAGCAACTA TTTAAATTGGTATCAGCAGAAACCAGGGCAAAGCCCCTAAGTTCCTGATCTATGGTGCATCCAGT TTGGAAAGTGGGGTCCCATCANGGTTCAGTGGCAGTGGATCTGGGACAGATTTCACTCTCACCAT CAGCAGCCTGCAACCTGNGGATTTTGCAACTTACTACTGTCAACAGAGTTACAGTAACCC]T[CTC ACTTTCGGCGGNGGGACCAANGTGGAGATCAAAC]GAACTGTGGCTGCACCATCTGTCTTCATCT TCCCGCCATCTGATGAGCAGTTGAAATCTGGAACTGCCTCTGTTGTGTGCCTGCTGAATAACTTCT ATCCCAGAGAGGCCAAAGTACA

FIG. 16H